

MEMORANDUM FOR.

See Records

*Corning Ltr dtd 14 May 1970
containing request for authority to
spend \$1800 for new ruled
grating with randomized spacing
of lines withdrawn due to fact
that mistake in computing remaining
funds available was made. Corning
will buy grating with own funds.*

6/23/70

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CORNING GLASS WORKS

CORNING

RALEIGH, NORTH CAROLINA

ELECTRONIC PRODUCTS DIVISION

3900 ELECTRONICS DRIVE

ZIP 27604

TEL: 919 ~~338-0000~~ 876-1100

May 14, 1970

Dear Sir:

In conjunction with our contract, "REDUCING TO PRACTICE CERTAIN DISCOVERIES RELATING TO THE OPTICAL PHENOMENA OF REAR PROJECTION SCREENS," we would like to utilize the expertise of

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Our work on lenticular rear projection screens is at a point where we must test the principle of randomization of lenticule depth as a means of reducing diffraction effects. We propose to have a master ruling made incorporating controlled variations in groove depth. A second, and equally important, benefit to be gained from this ruling is improved optical quality resulting from more careful shaping of the diamond tool and use of diffraction-grating grade substrate material. Both the elimination of diffraction effects and improvement in optical quality (and consequent reduction of scintillation) must be demonstrated on small samples before scaling up the process to a useful size.

Specifications are as follow:

1 each 2 3/4" x 2 3/4" ruling in aluminum, 500 lines/in.

Concave cylindrical grooves of nominal
radius 0.001414"

Nominal groove depth 0.000414"

Groove depth to be varied in programed sequence

1 each Nickel replica with finished back

Cost:

Delivery: 10 July 70

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6/23/70
Withdrawn by Corning
see attached blue
bullet.
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- 2 -

We propose that [redacted] New York, be given the order to do this work. On a previous occasion we used [redacted] Connecticut, as a supplier of sample lenticular screens. We have had discussion with Rowland regarding this current requirement, and they have recommended that Alliance make the ruling for us as they have in the past for them.

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After receiving the ruled gratings from [redacted] we would have a polypropylene replica pressed. We would then use this for casting at least one lenticular film for evaluation.

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We wish to pay [redacted] for this work out of the funds available under the aforementioned contract. Will you please advise if you are agreeable with our going ahead on this. In order that sufficient time be available for testing the resulting screen, your prompt attention would be highly appreciated.

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Sincerely,

CORNING GLASS WORKS

[redacted]

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Manager, Product Planning

MRS:ngw

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